FLSIC Action Item 021024-03

NAVICP-M 0563 conduct a Model Requisition Effectiveness (MRE) review on all ship classes to address Fleet Gross Effectiveness and provide results to Fleet CINCs/TYCOMs.

TYCOMs to address NIS factors impacting Fleet Gross Effectiveness.

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05 March 2003

BACKGROUND

- CDR Wilkins Gross Effectiveness Pitch
  - Amplified High Number of “J” Source Codes
  - CNSL Requested Analysis to Determine Maximum Gross Effectiveness Achievable per Ship Class
    - Requires “Removal” of Non-Candidate Items
  - Model Requisition Effectiveness (MRE)
    - Measures the Theoretical Maximum Gross & Allowance (COSAL) Effectiveness

OUR APPROACH

- Use 3M data from 01-01-01 – 12-31-02
- Dissect Issues by Source Code
- Segregate J Source Codes
  - Candidates That Do Not Compute
  - Non-Candidates
    - Z Overrides
    - SM&R Beyond Maintenance Capability
- Re-Calculate Gross & COSAL Effectiveness
  - Do Not Consider “G” Source Code Issues
    - Not on APL (Provisioning)
    - APL Not Recorded in Ship’s Configuration
  - Consider Only Candidate “J” Source Code Issues (J^1)

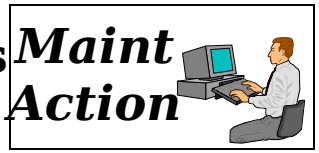
EFFECTIVENESS FORMULAS

- Standard Effectiveness Formula
  - Allowance Effectiveness = (A+C+D+F)/ (A+C+D+F+G+J)
  - Gross Effectiveness = (A+C)/ (A+C+D+F+G+J)
- Model Requisition Effectiveness Formula
  - Allowance Effectiveness = (A+C+D+F)/ (A+C+D+F+J^1)
  - Gross Effectiveness = (A+C)/(A+C+D+F+J^1)

J^1 = Excluding Non-candidates

DDG 51 CLASS EFFECTIVENESS TOPDOWN BREAKDOWN

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM



Repair Part

Issued 55%

Not Avail 45%

Fleet

Allowed but NIS 15%

Not Allowed 30%

ICP/NS LC

Part is not Reflected in SNAP (G) 6%

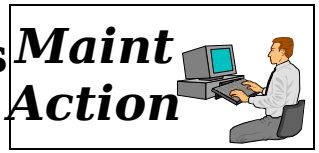
Part in SNAP Does not Compute (J) 24%

Configuration Issue 3%

Provisioning Issue 2%

DDG 51 CLASS EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force



Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Repair Part

Issued 55%

Not Avail 45%

Allowed but NIS 15%

Not Allowed 30%

Part is not Reflected in SNAP (G) 6%

Part in SNAP Does not Compute (J) 24%

Non-Computing Candidates 15%

Configuration Issue 3%

Provisioning Issue 2%

Non Candidates 9%

Current
GROSS.....55%
NET.....78%
COSAL..... 70%

MRE
GROSS.....
64%
COSAL.....
82%

SHIP CLASS RESULTS

CLASS	COSAL	NET	GROSS
CG 47	70%	78%	55%
CG 47 MRE	81%	78%	64%
CV 63	80%	79%	64%
CV 63 MRE	90%	79%	71%
CV 67	78%	84%	65%
CV 67 MRE	86%	84%	72%
CVN 65	81%	47%	38%
CVN 65 MRE	88%	47%	41%
CVN 68	81%	79%	64%
CVN 68 MRE	89%	79%	70%

CLASS	COSAL	NET	GROSS
DDG 51	70%	78%	55%
DDG 51 MRE	82%	78%	64%
FFG 7	63%	75%	47%
FFG 7 MRE	74%	75%	56%
LPD 4	71%	79%	57%
LPD 4 MRE	81%	79%	64%
SSN 21	81%	77%	63%
SSN 21 MRE	87%	77%	67%
SSN 688	83%	85%	70%
SSN 688 MRE	91%	85%	77%

COSAL – Probability item is stocked (allowed) onboard whether or not available
when requested

NET – Probability stocked (allowed) item is onboard when

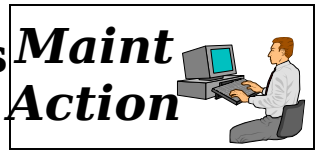
CONCLUSIONS

- NET Effectiveness Has Large Impact on GROSS Effectiveness
- Technical Issues Significantly Constrain GROSS and Allowance (COSAL) Effectiveness
  - Corroborates SAT Findings
- LANT/PAC Deltas

BACK-UP SLIDES

CG 47 CLASS EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force



Repair Part

Issued 55%

Not Avail 45%

Allowed but NIS 15%

Not Allowed 30%

Part is not Reflected in SNAP (G) 5%

Part in SNAP Does not Compute (J) 24%

Configuration Issue 3%

Provisioning Issue 2%

Non Candidates 8%

Non-Computing Candidates 16%

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Current
GROSS.....55%
NET.....78%
COSAL..... 70%

MRE
GROSS.....
64%
COSAL.....
81%

CG LANT EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force — *Maint Action*

Repair Part

Issued 55%

Not Avail 45%

Allowed but NIS 16%

Not Allowed 29%

Part is not Reflected in SNAP (G) 5%

Part in SNAP Does not Compute (J) 24%

Non-Computing Candidates 17%

Configuration Issue 2%

Provisioning Issue 2%

Non Candidates 7%

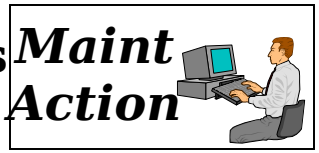
Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Current
GROSS.....55%
NET.....77%
COSAL..... 71%

MRE
GROSS.....
62%
COSAL.....
81%

CG PAC EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force



Repair Part

Issued 56%

Not Avail 44%

Allowed but NIS 13%

Not Allowed 31%

Part is not Reflected in SNAP (G) 7%

Part in SNAP Does not Compute (J) 24%

Configuration Issue 4%

Provisioning Issue 3%

Non Candidates 8%

Non-Computing Candidates 16%

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Current
GROSS.....56%
NET.....81%
COSAL..... 69%

MRE
GROSS.....
66%
COSAL.....
81%

CV 63 EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force

Maint Action

Repair Part

Issued 64%

Not Avail 36%

Allowed but NIS 17%

Not Allowed 20%

Part is not Reflected in SNAP (G) 8%

Part in SNAP Does not Compute (J) 12%

Non-Computing Candidates 9%

Configuration Issue 4%

Provisioning Issue 3%

Non Candidates 3%

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Current
GROSS.....64%
NET.....79%
COSAL..... 80%

MRE
GROSS.....
71%
COSAL.....
90%

CV 67 EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force

Maint Action

Repair Part

Issued 65%

Not Avail 35%

Allowed but NIS 13%

Not Allowed 22%

Part is not Reflected in SNAP (G) 2%

Part in SNAP Does not Compute (J) 20%

Non-Computing Candidates 13%

Configuration Issue 1 %

Provisioning Issue 1%

Non Candidates 7%

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Current
GROSS.....65%
NET.....84%
COSAL..... 78%

MRE
GROSS.....
72%
COSAL.....
86%

CVN 65 EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force — *Maint Action*

Repair Part

Issued 38%

Not Avail 62%

Allowed but NIS 43%

Not Allowed 19%

Part is not Reflected in SNAP (G) 3%

Part in SNAP Does not Compute (J) 16%

Non-Computing Candidates 11%

Configuration Issue 2%

Provisioning Issue 1%

Non Candidates 5%

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Current
GROSS.....38%
NET.....47%
COSAL..... 81%

MRE
GROSS.....
41%
COSAL.....
88%

CVN 68 CLASS EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force

Maint Action

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Repair Part

Issued 64%

Not Avail 36%

Allowed but NIS 17%

Not Allowed 19%

Part is not Reflected in SNAP (G) 5%

Part in SNAP Does not Compute (J) 14%

Non-Computing Candidates 10%

Configuration Issue 3 %

Provisioning Issue 2%

Non Candidates 4%

Current
GROSS.....64%
NET.....79%
COSAL..... 81%

MRE
GROSS.....
70%
COSAL.....
89%

CV-CVN LANT EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force — *Maint Action*

Repair Part

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Issued 66%

Not Avail 34%

Allowed but NIS 14%

Not Allowed 20%

Part is not Reflected in SNAP (G) 3%

Part in SNAP Does not Compute (J) 17%

Non-Computing Candidates 12%

Configuration Issue 2%

Provisioning Issue 1%

Non Candidates 5%

Current
GROSS.....66%
NET.....83%
COSAL..... 80%

MRE
GROSS.....
72%
COSAL.....
88%

CV-CVN PAC EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force — *Maint Action*

Repair Part

Issued 57%

Not Avail 43%

Allowed but NIS 23%

Not Allowed 20%

Part is not Reflected in SNAP (G) 7%

Part in SNAP Does not Compute (J) 13%

Configuration Issue 4%

Provisioning Issue 3%

Non Candidates 4%

Non-Computing Candidates 9%

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Current
GROSS.....57%
NET.....71%
COSAL..... 80%

MRE
GROSS.....
64%
COSAL.....
90%

DDG LANT EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force — *Maint Action*

Repair Part

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Issued 52%

Not Avail 48%

Allowed but NIS 18%

Not Allowed 29%

Part is not Reflected in SNAP (G) 6%

Part in SNAP Does not Compute (J) 24%

Configuration Issue 3%

Provisioning Issue 2%

Non Candidates 9%

Non-Computing Candidates 15%

Current
GROSS.....52%
NET.....74%
COSAL..... 71%

MRE
GROSS.....
61%
COSAL.....
82%

DDG PAC EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force — *Maint Action*

Repair Part

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Issued 58%

Not Avail 42%

Allowed but NIS 12%

Not Allowed 30%

Part is not Reflected in SNAP (G) 6%

Part in SNAP Does not Compute (J) 24%

Configuration Issue 3%

Provisioning Issue 2%

Non Candidates 9%

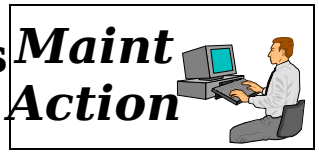
Non-Computing Candidates 15%

Current
GROSS.....58%
NET.....83%
COSAL..... 70%

MRE
GROSS.....
68%
COSAL.....
82%

FFG 7 CLASS EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force



Repair Part

Issued 47%

Not Avail 53%

Allowed but NIS 16%

Not Allowed 37%

Part is not Reflected in SNAP (G) 6%

Part in SNAP Does not Compute (J) 31%

Configuration Issue 3%

Provisioning Issue 2%

Non Candidates 9%

Non-Computing Candidates 22%

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Current
GROSS.....47%
NET.....75%
COSAL..... 63%

MRE
GROSS.....
56%
COSAL.....
74%

FFG LANT EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force

Maint Action

Repair Part

Issued 42%

Not Avail 58%

Allowed but NIS 19%

Not Allowed 39%

Part is not Reflected in SNAP (G) 7%

Part in SNAP Does not Compute (J) 32%

Configuration Issue 4%

Provisioning Issue 3%

Non Candidates 10%

Non-Computing Candidates 22%

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Current
GROSS.....42%
NET.....69%
COSAL..... 61%

MRE
GROSS.....
50%
COSAL.....
73%

FFG PAC EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force

Maint Action

Repair Part

Issued 54%

Not Avail 46%

Allowed but NIS 12%

Not Allowed 35%

Part is not Reflected in SNAP (G) 4%

Part in SNAP Does not Compute (J) 30%

Non-Computing Candidates 21%

Configuration Issue 2%

Provisioning Issue 2%

Non Candidates 9%

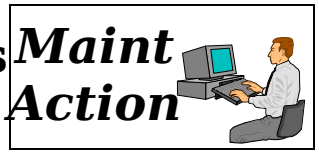
Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Current
GROSS.....54%
NET.....82%
COSAL..... 65%

MRE
GROSS.....
62%
COSAL.....
76%

LPD LANT EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force



Repair Part

Issued 46%

Not Avail 54%

Allowed but NIS 19%

Not Allowed 35%

Part is not Reflected in SNAP (G) 7%

Part in SNAP Does not Compute (J) 28%

Non-Computing Candidates 21%

Configuration Issue 4%

Provisioning Issue 3%

Non Candidates 7%

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Current
GROSS.....46%
NET.....70%
COSAL..... 65%

MRE
GROSS.....
53%
COSAL.....
75%

LPD PAC EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force

Maint Action

Repair Part

Issued 64%

Not Avail 36%

Allowed but NIS 11%

Not Allowed 25%

Part is not Reflected in SNAP (G) 5%

Part in SNAP Does not Compute (J) 20%

Configuration Issue 3%

Provisioning Issue 2%

Non Candidates 5%

Non-Computing Candidates 15%

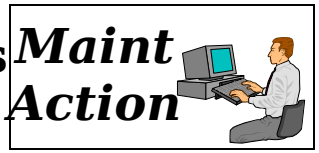
Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Current
GROSS.....64%
NET.....85%
COSAL..... 75%

MRE
GROSS.....
71%
COSAL.....
84%

SSN 688 CLASS EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force



Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Repair Part

Issued 70%

Not Avail 30%

Allowed but NIS 13%

Not Allowed 17%

Part is not Reflected in SNAP (G) 4%

Part in SNAP Does not Compute (J) 13%

Configuration Issue 2%

Provisioning Issue 2%

Non Candidates 5%

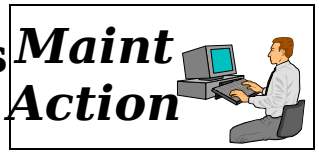
Non-Computing Candidates 8%

Current
GROSS.....70%
NET.....85%
COSAL..... 83%

MRE
GROSS.....
77%
COSAL.....
91%

SSN 688 LANT EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force



Repair Part

Issued 69%

Not Avail 31%

Allowed but NIS 18%

Not Allowed 18%

Part is not Reflected in SNAP (G) 5%

Part in SNAP Does not Compute (J) 13%

Configuration Issue 3%

Provisioning Issue 2%

Non Candidates 5%

Non-Computing Candidates 8%

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Current
GROSS.....69%
NET.....84%
COSAL..... 82%

MRE
GROSS.....
77%
COSAL.....
91%

SSN 688 PAC EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force

Maint Action

Repair Part

Issued 72%

Not Avail 28%

Allowed but NIS 12%

Not Allowed 16%

Part is not Reflected in SNAP (G) 4%

Part in SNAP Does not Compute (J) 12%

Configuration Issue 2%

Provisioning Issue 2%

Non Candidates 4%

Non-Computing Candidates 8%

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Current
GROSS.....72%
NET.....85%
COSAL..... 84%

MRE
GROSS.....
78%
COSAL.....
92%

SSN 21 CLASS EFFECTIVENESS TOPDOWN BREAKDOWN

Ship's Force

Maint Action

Repair Part

Issued 63%

Not Avail 37%

Allowed but NIS 18%

Not Allowed 19%

Part is not Reflected in SNAP (G) 3%

Part in SNAP Does not Compute (J) 16%

Configuration Issue 1%

Provisioning Issue 1%

Non Candidates 4%

Non-Computing Candidates 12%

Data Timeframe: 1/1/01-12/31/02
Source: Supply Issues Table from 3
Active Ships by TYCOM

Current
GROSS.....63%
NET.....77%
COSAL..... 81%

MRE
GROSS.....
67%
COSAL.....
87%